

INTERNATIONAL SEARCH REPORT

Inter

Application No

PCT/IB2004/052203

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B81B3/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B81B H01G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/055789 A (SONY CORPORATION; IKEDA, KOICHI; KINOSHITA, TAKASHI) 10 July 2003 (2003-07-10) figures 1,2,14	1,2,4,8, 11
P,X	-& US 2004/077119 A1 (IKEDA KOICHI ET AL) 22 April 2004 (2004-04-22) paragraph [0026]; figures 1,2,14	1,2,4,8, 11
X	WO 03/078299 A (ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE; IONESCU, MIHAI, ADRIAN ET AL) 25 September 2003 (2003-09-25) claims 1,2,13; figure 7 page 15, line 23 - page 17, line 15 page 12, lines 31-34 ----- -/--	1,2,4,8, 11

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

25 February 2005

Date of mailing of the international search report

23/05/2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FRITSCHI R ET AL: "A novel RF MEMS technological platform" IECON-2002. PROCEEDINGS OF THE 28TH. ANNUAL CONFERENCE OF THE IEEE INDUSTRIAL ELECTRONICS SOCIETY. SEVILLA, SPAIN, NOV. 5 - 8, 2002, ANNUAL CONFERENCE OF THE IEEE INDUSTRIAL ELECTRONICS SOCIETY, NEW YORK, NY : IEEE, US, vol. VOL. 1 OF 4. CONF. 28, 5 November 2002 (2002-11-05), pages 3052-3056, XP010707678 ISBN: 0-7803-7474-6 page 3053, left-hand column; figure 1 -----	1,2,4,8, 11
X	CHANG C ET AL: "Innovative micromachined microwave switch with very low insertion loss" SENSORS AND ACTUATORS A, ELSEVIER SEQUOIA S.A., LAUSANNE, CH, vol. 79, no. 1, January 2000 (2000-01), pages 71-75, XP004185127 ISSN: 0924-4247 page 73, right-hand column; figures 3,4 page 74, left-hand column -----	1,2,4,8, 11

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2004/052203

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1,2,4,8,11

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1,2,4,8,11

Method and device comprising a fluorine chemistry inert etch stop layer.

2. claim: 3

Integrated thin-film capacitor

3. claim: 5

Etching in CF_y plasma

4. claims: 6,7

Etching of two sacrificial layers in one step

5. claims: 9,10

Group IVn-oxide etch stop layer

INTERNATIONAL SEARCH REPORT

Information on patent family members

Intern

Application No

PCT/IB2004/052203

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 03055789	A	10-07-2003	JP	2003200395 A	15-07-2003
			EP	1460036 A1	22-09-2004
			WO	03055789 A1	10-07-2003
			US	2004077119 A1	22-04-2004
			US	2005085000 A1	21-04-2005

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			EP	1460036 A1	22-09-2004
			WO	03055789 A1	10-07-2003
			US	2005085000 A1	21-04-2005

WO 03078299	A	25-09-2003	AU	2002322966 A1	29-09-2003
			WO	03078299 A1	25-09-2003
